

## 46.1 HLT—Halt

Opcode	Instruction	Description
F4	HLT	Halt

### Description

Stops instruction execution and places the processor in a HALT state. An enabled interrupt, NMI, or a reset will resume execution. If an interrupt (including NMI) is used to resume execution after a HLT instruction, the saved instruction pointer (CS:EIP) points to the instruction following the HLT instruction.

The HLT instruction is a privileged instruction. When the processor is running in protected or virtual-8086 mode, the privilege level of a program or procedure must be 0 to execute the HLT instruction.

### Operation

Enter Halt state;

### Flags Affected

None.

### Protected Mode Exceptions

#GP(0) If the current privilege level is not 0.

### Real-Address Mode Exceptions

None.

### Virtual-8086 Mode Exceptions

#GP(0) If the current privilege level is not 0.